VEHICLE IMMOBILIZER 'KODINIS'

Model IMB4. User Manual.

'KODINIS' - is modern electronic vehicle immobilizer for users looking for quality and appreciating their time. Immobilizer functions and hardware conforms to requirements of EU Directives and UN/ECE Regulation No. 97. Immobilizer 'KODINIS' is distinguished not only by the reliable engine immobilization preventing vehicle theft but also possibility of turning the immobilization off by means of adjustable PIN (Personal Identification Number) code. This is extremely handy when facing transponder key loss for example during some travel.

1. THE KIT.

a) system unit with connecting wires, system LED, buzzer and inductive antenna;
b) socket with fuse 5 A - 1 piece.;
c) socket with fuse 3 A - 1 piece.;
d) two transponder keys (might be of a different type - fig. 3, 4, 5, 6, 7);
e) user and installation manual.

2. SYSTEM UNIT.

System unit performs main engine immobilization functions thus it is extremely important to hide it well in the passenger compartment of a vehicle. After the installation of the system unit all system settings and pre-programming of new transponder keys is done by using the PIN code. Manufacturer supplies immobilizer together with default 4-digit PIN code (Fig. 1) that can be found on the Identification label of anti-theft system (Fig. 2). Afterwards the user should change it into some other easy memorable 4-digit number. It is recommended to write down the new PIN code however do not keep this information in your vehicle. In addition, do not use your birthday date or home address for the PIN.

Fig. 1 The PIN code.

Fig. 2. The Identification Label.

3. TRANSPONDER KEY.

Every transponder key has its individual code (out of more than 9 billions distinct codes). The code is read when the key passes a magnetic field, which is generated by inductive antenna connected to system unit.

Fig. 3 Pendants shape transponder key.

Fig. 4 Pendant shape transponder key.

Fig. 5 Pendant shape transponder key.

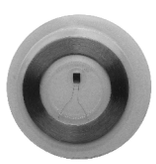

Fig. 6 Non-frame transponder keys.

Fig. 7 Cards shape transponder key.

4. CONTROL OF IMMOBILIZER.

4.1. ENGINE IMMOBILIZATION. Engine immobilization enables automatically when 40 seconds pass after turning ignition OFF. Immobilization enabling is indicated by a short buzzer signal and LED flashes.

4.2. ENGINE IMMOBILIZATION DISABLING. Turn the ignition ON and set pre-programmed transponder key to inductive antenna at a distance of 3-15 centimetres. Immobilization disabling is indicated by short buzzer signals (its number corresponds to the number of pre-programmed transponder keys), LED stops flashing. If protection from opened theft ('anti-carjack') function is activated it is necessary to cancel 'anti-carjack' (section 5.1) in 40 seconds after turning ON the ignition.

4.3. IMMOBILIZATION EMERGENCY DISABLING BY MEANS OF PIN CODE. For emergency occasions (such as loss of transponder key or car repairs) immobilizer 'KODINIS' has the function to disable engine immobilization in cases of emergency. In this way, disabled immobilizer has no influence for vehicle operating parameters and its safe exploitation. The mode enables when 82 seconds pass after PIN code entering. Actions should be performed in the following sequence:

a) turn the ignition OFF, wait for engine immobilization and immobilizer LED start flashing;
b) turn the ignition ON, shortly after when immobilizer LED starts flashing in double flashes, count the number of flashes (1 double flash = 1 flash) till the number corresponding with digit 1 of the PIN code. Turn the ignition OFF for a short time and turn it ON again. Count the number of flashes till the number corresponds with digit 2 of the PIN code. Turn the ignition key ON and OFF again. Enter the remaining two digits of the PIN code respectively.

Upon correct entry of all four digits of the PIN code, LED fires triple flashes, for 80 seconds in frequent flashes, later - quadruple flashes;

c) quadruple immobilizer LED flashes indicates engine immobilization emergency disabling (service mode);

d) In you've made a mistake by entering the PIN code, start the steps in clause 6.2 all over again.

To disable the service mode set transponder key (not necessarily pre-programmed) to antenna or enter the PIN cone and FN=11 (see Installation Manual).

4.4. ENGINE IMMOBILIZATION EMERGENCY DISABLING BY SPECIAL WIRE. If user is unsure about his ability to enter the PIN code, immobilizer 'KODINIS' has an alternative. Immobilizer can be pre-programmed to do emergency engine immobilization by connecting input „–" with the ground or input „+" with +12V circuit depending on FN=62 function settings. Engine immobilization emergency disabling (service mode) and immobilization disabling cancellation is set with the function FN=63 function. Remember that engine immobilization emergency disabling by the wire significantly decrease efficiency of the immobilizer as an optional vehicle security system device. Also the engine immobilization emergency disabling by means of PIN code (section 3.3) is no longer possible.

4.5. CUSTOMIZING THE PIN CODE. A user is provided with possibility of changing PIN code. This requires:

a) Enter current PIN code (section 4.3);

b) Turn the ignition OFF and wait for 3 seconds until system LED stops flashing in triple flashes;

c) In the same manner as with PIN code entering, enter 2 - digit code 81. The entry will be confirmed by short beep of buzzer;

d) Within 8 minutes enter the new PIN code twice, one after another. If in both cases the same code is entered, the system will record this as the new PIN code and confirm it by short beep of buzzer.

4.6. PRE-PROGRAMMING TRANSPONDER KEYS. After entering the PIN code (section 4.3) immobilizer LED flashes with triple flashes for 3 seconds. Within this time you need to turn the ignition ON. Then LED triple flashing time frame is extended to 12 seconds. You can pre-program transponder key within this time period. Set transponder key to antenna and hold it till 1 second single LED flash. First transponder key is pre-programmed; pre-programming time frame is extended to additional 12 seconds for another transponder key. After pre-programming of the first transponder key all previous transponder keys are deleted from the immobilizer memory. It is possible to pre-program 5 transponder keys.

5. ADDITIONAL FUNCTIONS.

5.1. PROTECTION AGAINST HIJACK ('ANTI-CARJACK' FUNCTION). This function can be selectable for vehicles operating outside the EU zone. Description of the function: with ignition ON or opened door and ignition ON cancel 'anti-carjack' function.

'Anti-carjack' function cancelling is optional and might be:

a) pressing the secret button;

b) pressing the secret button for 2 times in 3 seconds;

c) pressing the secret button for 3 times in 3 seconds;

d) setting transponder key (pre-programmed) to the inductive antenna.

Cancellation of the function 'Anti-carjack' is confirmed by immobilizer LED 1 second flash. If 'anti-carjack' function cancellation is not done, after 30 seconds immobilizer warns about it by short frequent buzzer signals. In 10 seconds buzzer signal becomes continuous, in 15 more seconds (depending on immobilizer settings) warning signal is turned OFF and engine immobilization is turned ON or warning signal is turned OFF and engine immobilization is turn ON when turning the ignition ON. When immobilizer signals in continuous buzzer signal it might be activating "mild" (gradual) engine immobilization by CC1 circuit. For continuous buzzer signal to be noticeable, warning signal can be transmitted to direction indicators and siren.

6. TECHNICAL SERVICE.

Technical service for the user: cutout replacing (location indicated by installer), programming warrant able settings, periodical operating control after vehicle crash. Advanced technical service is done at installing company, which has carried the installation.

7. SAFETY REQUIREMENTS.

Supply circuit and additional feeding circuits has to be protected by fuses.

5. WARRANTY STATEMENT.

5.1. MANUFACTURER AND DISTRIBUTOR OF IMMOBILIZER 'KODINIS' accepts no liability for possible vehicle theft.

5.2. WARRANTY TERM FOR IMMOBILIZER 'KODINIS' IS 24 MONTHS, warranty term being calculated from the day of the purchase. If no original receipt is available, the term starts from the day of alarm system manufacturing (indicated on the Identification label).

Warranty service is done by company, which has carried the installation, on these conditions:

- item has to be installed pursuant to installation manual supplied by the manufacturer;
- item has to be exploit pursuant to user manual.

Warranty becomes void in case of any modifications, mechanical, chemical damage or in car crash.

Warranty does not cover the exterior view.

For more details on manufacturer, products and FAQ visit Internet website at **www.kodinis.lt**.

Immobilizer 'KODINIS' is being manufactured in Lithuania in compliance with a corporate standard ĮST 2365999 - 03:2004.